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Corporate off :- No. 230, Opp. G.R. Lavender Apartments, Sai Enclave Layout, Kothanur Dinne, J.P. Nagar 8th Phase, Bangalore - 560 076.
Contact: +91-80-42277021/22, 9535200029, Email :- info@goolyfirm.com, goolyconsultancyservices@yahoo.com, www.goolyindia.com

TEST REPORT ON PHYSICAL PROPERTIES OF CEMENT

Name of Client:	Bruhat Bangalore Mahanagara Palike
Address:	Yelahanka Division
Package No:	Package - 01
Name of Work:	Improvements to roads, drains and other developmental works in ward no- 02 & 03 under road development head in Chief Minister Nava Nagarothan grants of Yelahanka division (Package -01)
Name Contractor:	M/s Sathya Constructions
Name of PMC:	M/s Gooly Consultancy services, Bangalore
Date of Receipt:	10.09 2020
Location:	ISRO Layout 11th Main Road
Sampling :	Sample Received from the site and Tested
Sample Identification*:	Priya OPC 53 grade
Reference to BIS codes:	Test Method:
	IS 4031(Part 1) 1996(RA 2016) Determination Of Fineness By Dry Sieving
	IS 4031(Part 3) 1988 (RA 2019) Determination Of Soundness
	IS 4031 (Part 4) 1988 (RA 2019) Determination Of Consistency Of Standard Cement Paste
	IS 4031 (Part 5) 1988 (RA 2019) Determination Of Initial & Final Setting Time
	IS 4031 (Part 6) 1988 (RA 2019) Determination Of Compressive Strength
	IS 4031 (Part 11) 1988 (RA 2019) Determination Of Density
	Specification :
	IS 269 : 2015 Ordinary Portland Cement
Condition of sample:	Satisfactory
Date of test:	11 09 2020 to 09 10 2020

Sl.No	Physical properties	Results	Units	Requirement as per IS 269: 2015		
				33 Grade	43 Grade	53 Grade
1	Standard Consistency	29 5	%	Not specified	Not specified	Not specified
2	Initial Setting time	165	minutes	Min 30 minutes	Min 30 minutes	Min 30 minutes
3	Final Setting time	360	minutes	Max 600 minutes	Max 600 minutes	Max 600 minutes
4	Fineness by dry sieving	9 2	%	–	–	–
6	Soundness (Le Chatelier's Method)	1	mm	Max 10 mm	Max 10 mm	Max 10 mm
8	Density	3 15	g/cm^3	–	–	–

Gooly Consultancy Services Bangalore

TEST REPORT ON MECHANICAL PROPERTIES OF COARSE AGGREGATES

Name of Client:	Bruhat Bangalore Mahanagara Palike
Address:	Yelahanka Division
Package No:	Package - 01
Name of Work:	Improvements to roads, drains and other developmental works in ward no- 02 & 03 under road development head in Chief Minister Nava Nagarothan grants of Yelahanka division (Package -01)
Name Contractor:	M/s Sathya Constructions
Name of PMC:	M/s Gooly Consultancy services, Bangalore
Date of Receipt:	10.09 2020
Sample Identification*:	20mm down size Coarse Aggregate
Location:	ISRO Layout 11th Main Road
Sampling :	Sample Received from the site and Tested
Reference to BIS codes:	**Test Method:** IS 2386 (Part 1) 1963 (RA 2016) Particle Size And Shape Cl 2 IS 2386 (Part 3) 1963 (RA 2016) Specific gravity, density, voids, absorption and bulking IS 2386 (Part 4) 1963 (RA 2016) Mechanical Properties **Specification** IS 383 : 2016 Coarse And Fine Aggregate For Concrete
Condition of sample:	Satisfactory
Date of test:	10.09 2020 to 17 09 2020

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM COARSE AGGREGATE:

Total weight taken: 5000 grams

Sl.No	Sieve Designation	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Requirement as per IS 383: 2016 Table-7 (Cl 6.1 & 6.2)	
						Graded	Single-Sized
1	40 mm	0	0	0	100	100	100
2	20 mm	555	555	11.1	88.9	90-100	85-100
3	10 mm	4425	4980	99.6	0.4	25-55	0-20
4	4.75 mm	15	4995	99.9	0.1	0-10	0-5
5	Pan	5	5000	100	0	---	---

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TEST REPORT ON CEMENT CONCRETE CUBES

Name of Client: Bruhat Bangalore Mahanagara Palike

Address: Yelahanka Division

Package No: Package -01

Name of Work: Improvements to roads, drains and other developmental works in ward no 07 & 03 under road development head in Chief Minister Nava Nagaruthan grants of Yelahanka division (Package -01)

Name of Contractor: M/s Sathya Constructions

Name of PMC: M/s Gooly Consultancy services, Bangalore

Sample Identification*: C C Cube / 150mmx150mmx150mm / M -20 / 28 days Compressive Strength

Reference to BIS codes: Test Method

IS 516 1959 (RA 2018) Methods Of Tests For Strength Of Concrete Cl 5

Specification:

IS 456 2000 (RA 2016) Plain And Reinforced Concrete - Code Of Practice

Condition of sample: Satisfactory

Sl No	Sample Identification mark on CC Cubes	Location	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of cube (kg)	Failure Load (kN)	Compressive strength (N/mm^2)	Average Compressive strength of 3 Cubes (N/mm^2)	Remarks
1	1/1	ISRO Layout Cross road 1	M-20	10-Oct-20	07-Nov-20	150*150*150	22500	8.263	496	22.05	21.7	Satisfy the IS 456:2000 Specification
	1/2	ISRO Layout Cross road 1	M-20	10-Oct-20	07-Nov-20	150*150*150	22500	8.125	486	21.60		
	1/3	ISRO Layout Cross road 1	M-20	10-Oct-20	07-Nov-20	150*150*150	22500	8.145	485	21.56		
2	1/1	ISRO Layout Cross road 4	M-20	10-Oct-20	07-Nov-20	150*150*150	22500	8.155	496	22.05	21.0	
	1/2	ISRO Layout Cross road-4	M-20	10-Oct-20	07-Nov-20	150*150*150	22500	8.243	458	20.36		
	1/3	ISRO Layout Cross road 4	M-20	10-Oct-20	07-Nov-20	150*150*150	22500	8.175	466	20.72		
3	1/1	ISRO Layout 11th Main Road	M-20	13-Oct-20	10-Nov-20	150*150*150	22500	8.163	485	21.56	21.4	
	1/2	ISRO Layout 11th Main Road	M-20	13-Oct-20	10-Nov-20	150*150*150	22500	8.236	475	21.12		
	1/3	ISRO Layout 11th Main Road	M-20	13-Oct-20	10-Nov-20	150*150*150	22500	8.210	485	21.56		
4	1/1	ISRO Layout 11th Main Road	M-20	13-Oct-20	10-Nov-20	150*150*150	22500	8.230	485	21.56	21.2	
	1/2	ISRO Layout 11th Main Road	M-20	13-Oct-20	10-Nov-20	150*150*150	22500	8.188	469	20.85		
	1/3	ISRO Layout 11th Main Road	M-20	13-Oct-20	10-Nov-20	150*150*150	22500	8.266	475	21.12		
5	1/1	ISRO Layout 11th Main Road	M-20	14-Oct-20	11-Nov-20	150*150*150	22500	8.230	455	20.23	20.8	
	1/2	ISRO Layout 11th Main Road	M-20	14-Oct-20	11-Nov-20	150*150*150	22500	8.248	485	21.56		
	1/3	ISRO Layout 11th Main Road	M-20	14-Oct-20	11-Nov-20	150*150*150	22500	8.236	465	20.67		
6	1/1	ISRO Layout 11th Main Road	M-20	14-Oct-20	11-Nov-20	150*150*150	22500	8.245	475	21.12	21.1	
	1/2	ISRO Layout 11th Main Road	M-20	14-Oct-20	11-Nov-20	150*150*150	22500	8.552	466	20.72		
	1/3	ISRO Layout 11th Main Road	M-20	14-Oct-20	11-Nov-20	150*150*150	22500	8.266	485	21.56		

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DETERMINATION OF FLAKINESS AND ELONGATION INDEX

Name of Client: Bruhat Bangalore Mahanagara Palike
Address: Yelahanka Division
Package No: Package - 01
Name of Work: Improvements to roads, drains and other developmental works in ward no- 02 & 03 under road development head in Chief Minister Nava Nagarothan grants of Yelahanka division (Package -01)
Name Contractor: M/s Sathya Constructions
Name of PMC: M/s Gooly Consultancy services, Bangalore
Date of sample: 04-Nov-20
Chainage/Location/ Landmark: ISAQ Layout 1st Main Road
Date of Testing: 05-Nov-20
Reference to IS Code: IS 2386 (Part 1) 1963(RA 2016)

Layer: WMM

Size of Aggregates		Flakiness Index						Elongation Index				
Passing through IS sieves	Retained on IS sieves	Thickness gauge size	Weight of aggregate taken in each fraction	Fraction retained in the whole sample	Weight of aggregate in each fraction passing the thickness gauge.	Percent passing the gauge (100*(6/4)	Flakiness Index (7 * 5)	Length gauge size	Weight of aggregate taken in each fraction	Weight of aggregate in each fraction retained on length gauge	Percenet NOT passing the gauge (100*(11/10)	Elongation Index (5 * 12)
(mm)	(mm)	(mm)	(grams)	(Percent)	(grams)			(mm)	(grams)	(grams)		
1	2	3	4	5	6	7	8	9	10	11	12	
63	50	33.90						--				
50	40	27.00						81.00				
40	31.5	21.50	3155	24.58	177	5.61	137.91	64.40	3155	87	2.76	85.39
31.5	25	16.95	2645	20.61	132	4.99	102.85	--	--	--	--	
25	20	13.50	2153	16.78	235	10.92	183.11	40.50	2153	169	7.85	165.87
20	16	10.80	1785	13.91	356	19.94	277.39	32.40	1785	187	10.48	183.53
16	12.5	8.55	1266	9.86	185	14.61	144.15	25.60	1266	277	21.88	271.86
12.5	10	6.75	965	7.52	136	14.09	105.97	20.20	965	269	27.88	264.01
10	6.3	4.89	865	6.74	88	10.17	68.57	14.70	865	175	20.23	171.75
		TOTAL:	12834	100	1309	80.34	1019.95	TOTAL:	10189	1164.00	91.07	1142.41

Flakiness Index: 10.20 %
Elongation Index: 11.42 %
Combined Flakiness & Elongation Index: 22 %

The tested sample is found to be Satisfactory as it meets the requirements of MORTH specification/Project Requirement

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4. Samples will be disposed after 90 days from the date of issue of test certificate.

Prepared By: Pushpa D B

Tested By: Sree Charan S

Gooly Consultancy Services Bangalore
Project Manager

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TEST REPORT OF DETERMINATION OF RATE OF SPREAD OF PRIMER COAT

Name of Client: Bruhat Bangalore Mahanagara Palike

Address: Yelahanka Division

Package No: Package - 01

Name of Work: Improvements to roads, drains and other developmental works in ward no-02 & 03 under road development head in Chief Minister Nava Nagarothan grants of Yelahanka division (Package -01)

Name Contractor: M/s Sathya Constructions

Name of PMC: M/s Gooly Consultancy services, Bangalore

Chainage/Location /Land Mark: Yelahanka New town 5th Phase 1st Cross Road Ch 0 0 to 230

Date of testing: 25-Nov-20

Determination	Unit	Test No		
		1	2	3
Size of Plate (mxm)	mt	0 2*0 2	0 2*0 2	0.2*0.2
Area of Plate (a)	Sq m	0 04	0 04	0 04
Initial Wt of empty Plate (b)	Kg	0 200	0 200	0 200
Final weight of plate after application of prime /Tack Coat (c)	Kg	0 224	0 226	0.226
Weight of Prime/Tack Coat (d=c-b)	Kg	0 024	0.026	0.026
Rate of spread of Prime/tack coat	kg/Sq m	0 600	0 650	0.650
Average	**kg/Sq.m**	**0.633**		
Specified Limit	**kg/Sq.m**	**0.60 Kg/sq.m for Prime coat**		

Remarks:

The tested sample is found to be satisfactory as it meets the requirements of the MORTH Specification/Project Requirement.

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Contractor/Contractor Representative

Client(AE/AEE/EE)

PMC

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TEST REPORT OF BITUMEN CONTENT & GRADATION FOR DENSE BITUMINOUS MACADAM

Name of Client:	Bruhat Bangalore Mahanagara Palike
Address:	Yelahanka Division
Package No:	Package - 01
Name of Work:	Improvements to roads, drains and other developmental works in ward no- 02 & 03 under road development head in Chief Minister Nava Nagarothan grants of Yelahanka division (Package -01)
Name Contractor:	M/s Sathya Constructions
Name of PMC:	M/s Gooly Consultancy services, Bangalore
Date of Sample Collection:	28-Nov-20
Chainage/Location /Land Mark:	Balaji Layout 1st Main Road
Date of testing:	28-Nov-20
Type of Mix:	Dense Bituminous Macadam

BITUMEN CONTENT DETERMINATION

Description	Sample 1	Requirements
1 Weight of Mixture before Test, gm	500	As per MORTH Specification for DBM Grade II (50-75mm) Bitumen Content 4.5 min VG-30
2 Weight of Mixture after Test, gm	475	
3 Weight of Bitumen Extracted, gm	25	
4 Bitumen content in %	5.0	

GRADATION AFTER EXTRACTION

TOTAL WEIGHT OF SAMPLE: 475 gms

SIEVE SIZE in mm	Weight Retained in gm	% Retained	Cumulative % Retained	% Passing	Requirements as per MORTH Specification Table 500-10
37.5	0	0.00	0.00	100.00	100
26.5	43	9.05	9.05	90.95	90 - 100
19	82	17.26	26.32	73.68	71-95
13.2	77	16.21	42.53	57.47	56-80
4.75	85	17.89	60.42	39.58	38-54
2.36	53	11.16	71.58	28.42	28-42
0.3	72	15.16	86.74	13.26	7-21
0.075	26	5.47	92.21	7.79	2-8

Remarks:

The tested sample is found to be satisfactory as it meets the requirements of the MORTH Specification/Project Requirement.

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DETERMINATION OF FLAKINESS AND ELONGATION INDEX

Name of Client: Bruhat Bangalore Mahanagara Palike

Address: Yelahanka Division

Package No: Package - 01

Name of Work: Improvements to roads, drains and other developmental works in ward no- 02 & 03 under road development head in Chief Minister Nava Nagarothan grants of Yelahanka division (Package -01)

Name Contractor: M/s Sathya Constructions

Name of PMC: M/s Gooly Consultancy services, Bangalore

Date of sample Collection: 27-Nov-20

Chainage/Location/ Landmark: Yelahanka New town 5th Phase 1st Cross Road Ch 0.0 to 230

Date of Testing: 28-Nov-20

Reference to IS Code: IS 2386 (Part 1) 1963(RA 2016)

Layer: BC

Size of Aggregates		Flakiness Index						Elongation Index				
Passing through IS sieves	Retained on IS sieves	Thickness gauge size	Weight of aggregate taken in each fraction	Fraction retained in the whole sample	Weight of aggregate in each fraction passing the thickness gauge.	Percent passing the gauge (100*(6/4)	Flakiness Index (7 * 5)	Length gauge size	Weight of aggregate taken in each fraction	Weight of aggregate in each fraction retained on length gauge	Percenet NOT passing the gauge (100*(11/10)	Elongation Index (5 * 12)
(mm)	(mm)	(mm)	(grams)	(Percent)	(grams)			(mm)	(grams)	(grams)		
1	2	3	4	5	6	7	8	9	10	11	12	
63	50	33.90						--				
50	40	27.00						81.00				
40	31.5	21.50						64.40				
31.5	25	16.95						--				
25	20	13.50						40.50				
20	16	10.80						32.40				
16	12.5	8.55						25.60				
12.5	10	6.75	1547	49.39	185	11.96	590.68	20.20	1547	175	11.31	558.75
10	6.3	4.89	1585	50.61	195	12.30	622.61	14.70	1585	188	11.86	600.26
		TOTAL:	3132	100	380	24.26	1213.28	TOTAL:	3132	363.00	23.17	1159.00

Flakiness Index: 12.13 %

Elongation Index: 11.59 %

Combined Flakiness & Elongation Index: 24 %

The tested sample is found to be Satisfactory as it meets the requirements of MORTH specification/Project Requirement

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4. Samples will be disposed after 90 days from the date of issue of test certificate.

Prepared By: Pushpa D.B

Tested By: Sree Charan S

Project Manager

Gooly Consultancy Services * Bangalore

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TEST REPORTS FOR BITUMEN CONTENT & GRADATION OF BITUMINOUS CONCRETE

Name of Client: Bruhat Bangalore Mahanagara Palike
Address: Yelahanka Division
Package No: Package - 01
Name of Work: Improvements to roads, drains and other developmental works in ward no- 02 & 03 under road development head in Chief Minister Nava Nagarothan grants of Yelahanka division (Package -01)
Name Contractor: M/s Sathya Constructions
Name of PMC: M/s Gooly Consultancy services, Bangalore
Date of Sample Collection: 04-Dec-20
Chainage/Location /Land Mark: Yelahanka New town 5th Phase 2nd Main Road Ch 0 0 to 190
Date of testing: 04-Dec-20
Type of Mix: Bituminous Concrete

BITUMEN CONTENT DETERMINATION

Description	Sample 1	Requirements
1. Weight of Mixture before Test, gm	500	As per MORTH Specification for Grade II Vide Table 500 17 Binder Content 5 4% min
2. Weight of Mixture after Test, gm	473	
3. Weight of Binder Extracted, gm	27	
4. Binder content in %	5 4	

GRADATION AFTER EXTRACTION
TOTAL WEIGHT OF SAMPLE: 473 gms

SIEVE SIZE in mm	Weight Retained in gm	% Retained	Cumulative % Retained	% Passing	Requirements as per MORTH Specification Table 500.17
19	0	0 00	0 00	100 00	100
13 2	38	8 03	8 03	91 97	90 - 100
9 5	49	10 36	18 39	81 61	70-88
4 75	99	20 93	39.32	60 68	53-71
2 36	68	14 38	53 70	46 30	42-58
1 18	45	9 51	63 21	36 79	34-48
0 6	43	9 09	72 30	27 70	26-38
0 3	28	5 92	78 22	21 78	18-28
0 15	32	6 77	84 99	15 01	12-20
0 075	25	5 29	90 27	9 73	4-10

Remarks:
The tested sample is found to be satisfactory as it meets the requirements of the MORTH Specification/Project Requirement.

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Contractor/Contractor Representative **Client(AE/AEE/EE)** **PMC**

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TEST REPORTS FOR BITUMEN CONTENT & GRADATION OF BITUMINOUS CONCRETE

Name of Client: Bruhat Bangalore Mahanagara Palike
Address: Yelahanka Division
Package No: Package - 01
Name of Work: Improvements to roads, drains and other developmental works in ward no- 02 & 03 under road development head in Chief Minister Nava Nagarothan grants of Yelahanka division (Package -01)

Name Contractor: M/s Sathya Constructions
Name of PMC: M/s Gooly Consultancy services, Bangalore
Date of Sample Collection: 07-Dec-20
Chainage/Location /Land Mark: SFS 208 3rd Main road Ch 49-325
Date of testing: 07-Dec-20
Type of Mix: Bituminous Concrete

BITUMEN CONTENT DETERMINATION

Description	Sample 1	Requirements
1. Weight of Mixture before Test, gm	500	As per MORTH Specification for Grade II Vide Table 500 17 Binder Content 5 4% min
2. Weight of Mixture after Test, gm	469	
3. Weight of Binder Extracted, gm	31	
4. Binder content in %	6 2	

GRADATION AFTER EXTRACTION
TOTAL WEIGHT OF SAMPLE: 469 gms

SIEVE SIZE in mm	Weight Retained in gm	% Retained	Cumulative % Retained	% Passing	Requirements as per MORTH Specification Table 500.17
19	0	0 00	0 00	100 00	100
13 2	23	4 90	4 90	95 10	90 - 100
9 5	102	21 75	26 65	73 35	70-88
4 75	86	18 34	44 99	55 01	53-71
2 36	55	11 73	56 72	43 28	42-58
1 18	39	8 32	65 03	34 97	34-48
0 6	35	7 46	72 49	27 51	26-38
0 3	32	6 82	79 32	20 68	18-28
0 15	28	5 97	85 29	14 71	12-20
0 075	25	5 33	90 62	9 38	4-10

Remarks:
The tested sample is found to be satisfactory as it meets the requirements of the MORTH Specification/Project Requirement.

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